

10/009158

1/7

Fig. 1

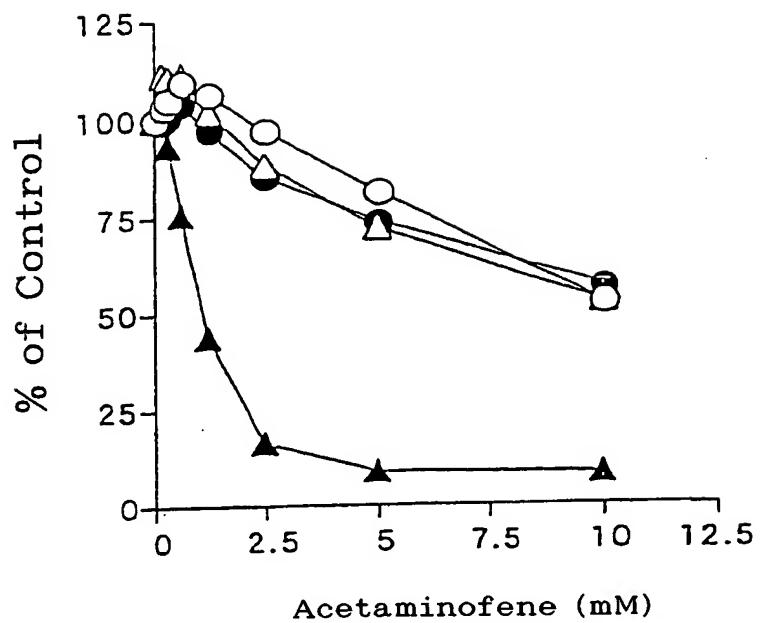


Fig. 2

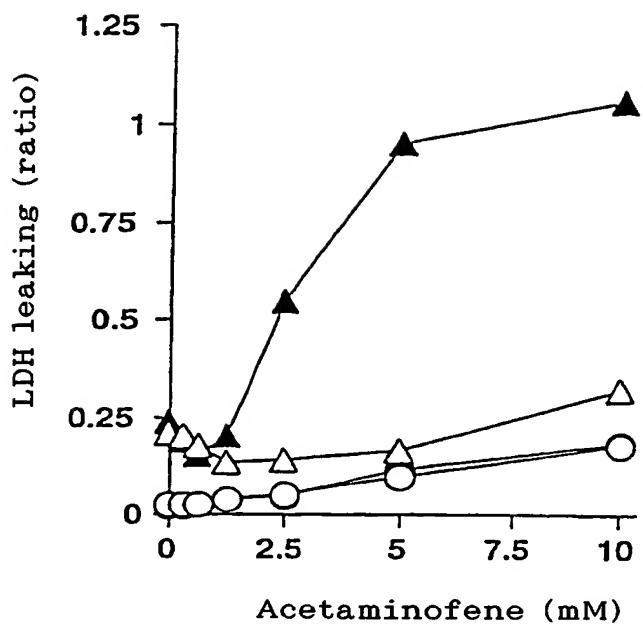


Fig. 3

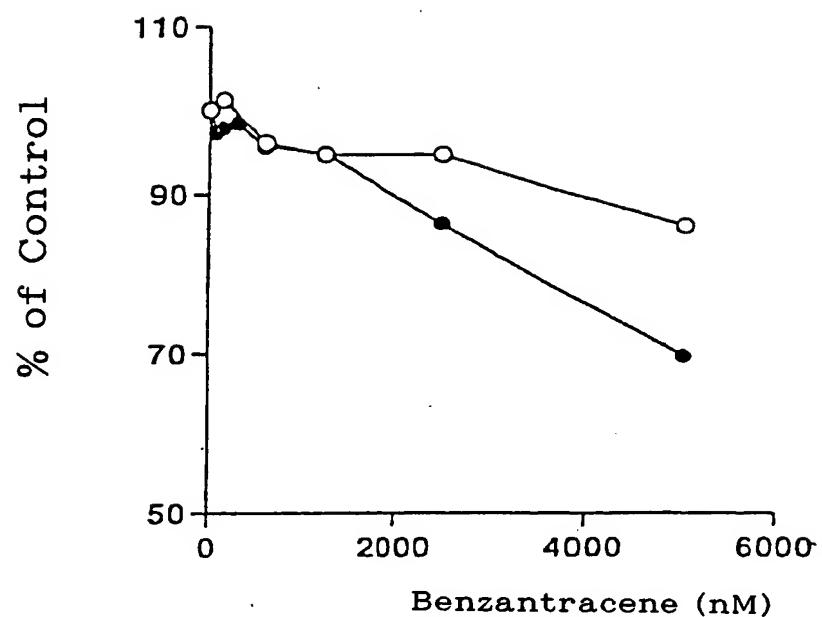


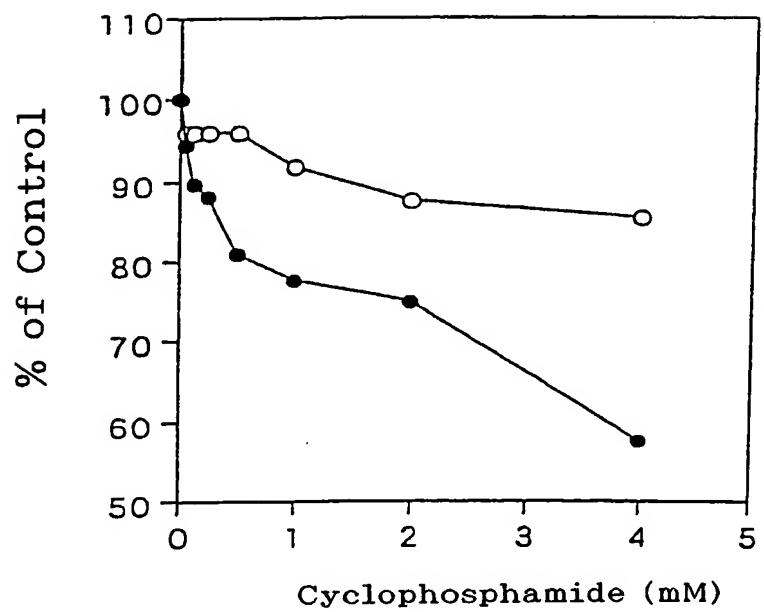
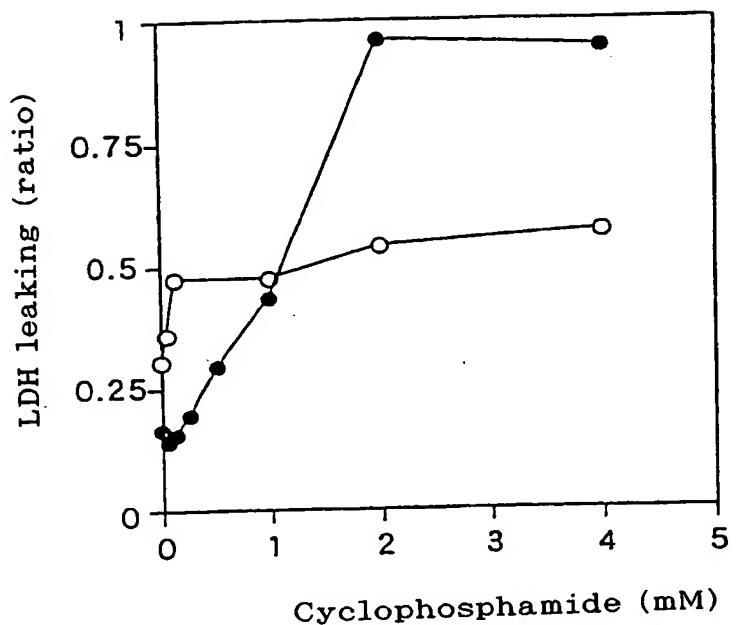
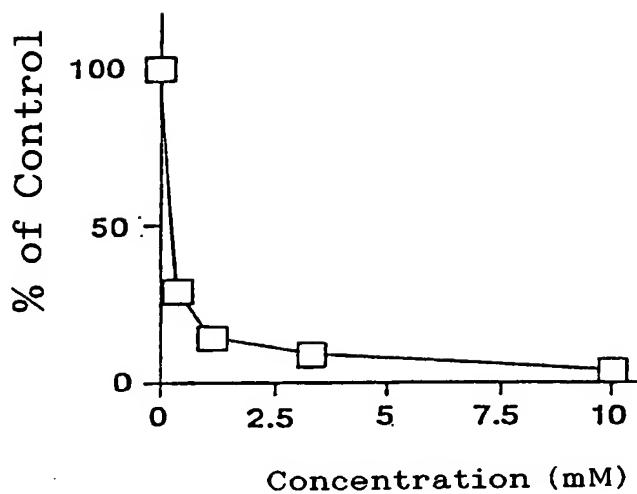
Fig. 4

Fig. 5

10,009158

6 / 7

Fig. 6



10/009158

7/7

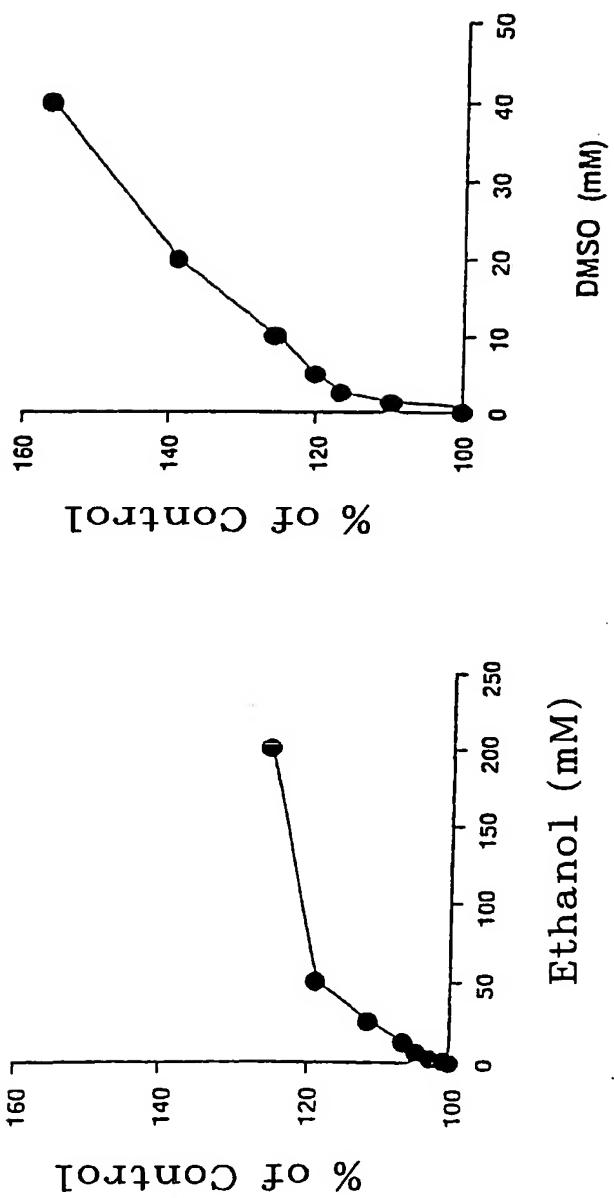


Fig. 7

10/009158

JC10 Rec'd PCT/PTO 25 OCT 2001

| CYP molecules | Transformant | Enzyme activity | | Km(µM) | V _{max} (pmol/min/mg) | Rate Constant |
|---------------|--------------|--|--|--------|--------------------------------|---------------|
| | | 7-ethoxresorufin O-deethylase activity | 7-ethoxresorufin O-deethylase activity | | | |
| CYP1A1 | Hepc/1A1.4 | 7-ethoxresorufin O-deethylase activity | 7-ethoxresorufin O-deethylase activity | 0.25 | 56 | |
| CYP1A2 | Hepc/1A2.9 | 7-ethoxresorufin O-deethylase activity | 7-ethoxresorufin O-deethylase activity | 0.72 | 1.6 | |
| CYP2A6 | Hepc/2A6L.9 | Coumarin 7-hydroxylase activity | Coumarin 7-hydroxylase activity | 11.1 | 412 | |
| CYP2B6 | Hepc/2B6.68 | 7-ethoxcoumarin O-deethylase activity | 7-ethoxcoumarin O-deethylase activity | 81 | 80 | |
| CYP2C8 | Hepc/2C8.46 | Taxol 6-hydroxylase activity | Taxol 6-hydroxylase activity | 7.4 | 0.009 | |
| CYP2C9 | Hepc/2C9.1 | Tolbutamide 4-hydroxylase activity | Tolbutamide 4-hydroxylase activity | 77 | 23 | |
| CYP2C19 | Hepc/2C19.12 | (S)-mephentytoin 4'-hydroxylase activity | (S)-mephentytoin 4'-hydroxylase activity | 8.26 | 140 | |
| CYP2D6 | Hepc/2D6.39 | Bufuralol 1'-hydroxylase activity | Bufuralol 1'-hydroxylase activity | 17 | 14 | |
| CYP2E1 | Hepc/2E1.3-8 | p-nitrophenol hydroxylase activity | p-nitrophenol hydroxylase activity | 88 | 120 | |
| CYP3A4 | Hepc/3A4.5 | Testosterone 6 β -hydroxylase activity | Testosterone 6 β -hydroxylase activity | 96 | 71 | |